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09/823,011	03/30/2001	Tao Chen	010008	6738		
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Qualcomm Incorporated			EXAMINER			
Patents Department 5775 Morehouse Drive			LELE, TANMAY S			
San Diego, Ca	A 92121-1714		ART UNIT	PAPER NUMBER		
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			DATE MAILED: 02/12/2003	•		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Op/823.011 CHEN ET AL. Examiner Art Unit Examiner Art		Application No.	Applicant(s)		
Examiner Tanmay S Lele 2681 Art Unit Tanmay S Lele 2681 Art Unit Tanmay S Lele As HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 1.136(d). In no event however, may a reply be timely fleed with the state of the state o					
Tanmay S Lele 2681	e Action Summary				
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'Art Unit: 2681

DETAILED ACTION

Specification

1. The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

Claim Objections

2. Claim 17 is objected to because of the following informalities: "states the apparatus as recited in claim 1," while claim recites a method. For examining purposes it was assumed that the "1" was a "16" and thus dependent on the apparatus. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 13 and 28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 13 and 28, it is not understood how, "said pilot channel originates from said mobile," as the mobile would thus transmit the signal to itself. For purposes of examining, it was assumed the base station transmitted the pilot signal, as is common to most systems.

Apporpriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

6. Claims 1 – 3 and 16 – 18 are rejected under 35 U.S.C. 102(a) as being anticipated by Blaker et al. (Blaker, World Intellectual Property Organization, WO 00/075905).

Regarding claim 1, Blaker teaches of in a communication system, a method comprising: determining duty cycle of a communication channel (page 9, lines 5 - 17 and page 10, lines 8 - 14); controlling power level of said communication channel based on said determined duty cycle (page 2, lines 12 - 17; page 9, lines 5 - 17).

Regarding claim 2, Blaker teaches all the claimed limitations as recited in claim 1. Blaker further teaches of further comprising: comparing said determined duty cycle against a duty cycle threshold (page 10, lines 15-21); wherein an adjustment for controlling power level via said controlling is based on said comparing (page 10, lines 8-14).

Regarding claim 3, Blaker teaches all the claimed limitations as recited in claim 1. Blaker further teaches of comprising: informing a mobile station of said determined duty cycle (page 10, lines 8-15).

Regarding claim 16, Blanker teaches of a communication system, an apparatus comprising: a controller configured for determining duty cycle of a communication channel (page 9, lines 5 - 17 and page 10, lines 8 - 14 and Figures 5a - 5e); wherein said controller further configured for controlling power level of said communication channel based on said determined duty cycle (page 2, lines 12 - 17; page 9, lines 5 - 17 and Figures 5a - 5e).

Regarding claim 17, Blanker teaches all the claimed limitations as recited in claim 16.

Blanker further teaches of wherein said controller is configured for comparing said determined

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duty cycle against a duty cycle threshold (page 10, lines 15-21), and wherein an adjustment for controlling power level via said controlling is based on said comparing (page 10, lines 8-14).

Regarding claim 18, Blaker teaches all the claimed limitations as recited in claim 16. Blaker further teaches of comprising: a transmitter configured for informing a mobile station, via a receiver in said mobile station, of said determined duty cycle (page 10, lines 8-15).

Claim Rejections - 35 USC § 103

7. Claims 4, 5, 8 – 10, 19, 20, and 23 – 25, are rejected under 35 U.S.C. 103(a) as being unpatentable over Blaker et al. (Blaker, World Intellectual Property Organization, WO 00/075905) as applied to claim 1 above, and further in view of Tiedemann Jr. (Tiedemann, US Patent No. 6,307,849).

Regarding claim 4, Blaker teaches all the claimed limitations as recited in claim 1.

Blaker does not specifically teach of wherein said controlling comprises of selecting a code channel to pilot channel power ratio for controlling power level of said communication channel.

In a related art dealing with centralized power control, Tiedemann teaches of wherein said controlling comprises of selecting a code channel to pilot channel power ratio for controlling power level of said communication channel (starting column 8, line 61 and ending column 9, line 23).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Tiedemann's ratio, for the purposes of optimizing and improving the performance of a CDMA system in respect to various facets (multi-carrier environments, soft handover, ect), as taught by Tiedemann.

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Regarding claim 5, Blaker in view of Tiedemann, teach all the claimed limitations as recited in claim 4. Tiedemann further teaches of comprising: informing a mobile station of said selected code channel to pilot channel power ratio (starting column 8, line 61 and ending column 9, line 23).

Regarding claim 8, Blaker teaches all the claimed limitations as recited in claim 1.

Blaker does not specifically teach of wherein said communication channel is a dedicated control channel.

In a related art dealing with centralized power control, Tiedemann teaches of wherein said communication channel is a dedicated control channel (column 5, lines 6-27).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Tiedemann's ratio, for the purposes of optimizing and improving the performance of a CDMA system in respect to various facets (multi-carrier environments, soft handover, ect), as taught by Tiedemann.

Regarding claim 9, Blaker in view of Tiedemann teaches all the claimed limitations as recited in claim 8. Tiedemann further teaches of wherein said controlling comprises of modifying a code channel to pilot channel power ratio associated with a traffic channel (starting column 8, line 61 and ending column 9, line 23).

Regarding claim 10, Blaker in view of Tiedemann teach all the claimed limitations as recited in claim 9. Tiedemann further teaches comprising: using said modified code channel to pilot channel power ratio to control power level of said dedicated control channel (as seen in Figure 3. and column 9, lines 5 - 53).

Regarding claim 19, Blaker teaches all the claimed limitations as recited in claim 16.

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Blaker does not specifically teach of wherein said controller is configured for performing said controlling by selecting a code channel to pilot channel power ratio for controlling power level of said communication channel.

In a related art dealing with centralized power control, Tiedemann teaches of wherein said controller is configured for performing said controlling by selecting a code channel to pilot channel power ratio for controlling power level of said communication channel (starting column 8, line 61 and ending column 9, line 23).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Tiedemann's ratio, for the purposes of optimizing and improving the performance of a CDMA system in respect to various facets (multi-carrier environments, soft handover, ect), as taught by Tiedemann.

Regarding claim 20, Blaker in view of Tiedemann, teach all the claimed limitations as recited in claim 19. Tiedemann further teaches of wherein said transmitter is configured for informing a mobile station of said selected code channel to pilot channel power ratio (starting column 8, line 61 and ending column 9, line 23 and Figures 1 and 3).

Regarding claim 23, Blaker teaches all the claimed limitations as recited in claim 16.

Blaker does not specifically teach of wherein said communication channel is a dedicated control channel.

In a related art dealing with centralized power control, Tiedemann teaches of wherein said communication channel is a dedicated control channel (column 5, lines 6 - 27).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Tiedemann's ratio, for the purposes of optimizing and

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improving the performance of a CDMA system in respect to various facets (multi-carrier environments, soft handover, ect), as taught by Tiedemann.

Regarding claim 24, Blaker in view of Tiedemann teaches all the claimed limitations as recited in claim 23. Tiedemann further teaches of wherein said controller is configured for said controlling by modifying a code channel to pilot channel power ratio associated with a traffic channel (starting column 8, line 61 and ending column 9, line 23).

Regarding claim 25, Blaker in view of Tiedemann teach all the claimed limitations as recited in claim 24. Tiedemann further teaches of wherein said controller is configured using said modified code channel to pilot channel power ratio to control power level of said dedicated control channel (as seen in Figure 3 and column 9, lines 5 - 53).

8. Claims 6, 7, 11 – 15, 21, 22, and 26 – 30, are rejected under 35 U.S.C. 103(a) as being unpatentable over Blaker et al. (Blaker, World Intellectual Property Organization, WO 00/075905) as applied to claim 1 above, and further in view of Ziv et al. (Ziv, US Patent No. 5,884,187).

Regarding claim 6, Blaker teaches all the claimed limitations as recited in claim 1.

Blaker does not specifically teach of wherein said communication channel is between a mobile station and a base station, wherein said controlling comprises: adjusting a parameter of a power control outer loop at said base station, wherein said power control outer loop is operating to control power level of a signal transmitted from said mobile station.

In a related art dealing with power control, Ziv teaches of wherein said communication channel is between a mobile station and a base station, wherein said controlling comprises: adjusting a parameter of a power control outer loop at said base station, wherein said power

control outer loop is operating to control power level of a signal transmitted from said mobile station (starting column 14, line 42 and ending column 15, line 20).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Ziv's control mechanism, for the purposes of centralizing power control and thus simplify the traditional power control mechanism, as taught by Ziv.

Regarding claim 7, Blaker teaches all the claimed limitations as recited in claim 1.

Blaker does not specifically teach of wherein said communication channel is between a mobile station and a base station, wherein said controlling comprises: adjusting a frame error rate set point, at said mobile station, of a power control outer loop, wherein said power control outer loop is operating to control power level of a signal transmitted from said mobile station.

In a related art dealing with power control, Ziv teaches of wherein said communication channel is between a mobile station and a base station, wherein said controlling comprises: adjusting a frame error rate set point, at said mobile station, of a power control outer loop, wherein said power control outer loop is operating to control power level of a signal transmitted from said mobile station (starting column 14, line 42 and ending column 15, line 20).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Ziv's control mechanism, for the purposes of centralizing power control and thus simplify the traditional power control mechanism, as taught by Ziv.

Regarding claim 11, Blaker teaches all the claimed limitations as recited in claim 1.

Blaker further teaches of wherein said controlling comprises of adjusting a target power level for controlling power level of said communication channel (page 2, lines 12 – 17; page 9, lines 5 – 17).

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Blaker does not specifically teach of [wherein said controlling comprises of adjusting a target power level] of a pilot channel [for controlling power level of said communication channel].

In a related art dealing with power control, Ziv teaches of [wherein said controlling comprises of adjusting a target power level] of a pilot channel [for controlling power level of said communication channel] (starting column 12, line 65 and ending column 13, line 20).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Ziv's control mechanism, for the purposes of centralizing power control and thus simplify the traditional power control mechanism, as taught by Ziv.

Regarding claim 12, Blaker in view of Ziv, teach all the claimed limitations as recited in claim 11. Ziv further teaches of wherein said communication channel is between a mobile station and a base station, further comprising: communicating said adjusted target power level of said pilot channel to said mobile station (column 17, lines 35 –45).

Regarding claim 13, Blaker in view of Ziv, teach all the claimed limitations as recited in claim 11. Ziv further teaches of wherein said communication channel is between a mobile station and a base station, wherein said pilot channel originates from the base station (column 17, lines 15-22).

Regarding claim 14, Blaker teaches all the claimed limitations as recited in claim 1.

Blaker does not specifically teach of wherein said controlling comprises of adjusting a power level of a power control sub-channel.

In a related art dealing with power control, Ziv teaches of wherein said controlling comprises of adjusting a power level of a power control sub-channel (column 17, lines 15 –22

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and lines 36-45; note that the base stations sends a variety of channels, the pilot being one of the subset).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Ziv's control mechanism, for the purposes of centralizing power control and thus simplify the traditional power control mechanism, as taught by Ziv.

Regarding claim 15, Blaker in view of Ziv teach all the claimed limitations as recited in claim 14. Ziv further teaches of wherein said communication channel is between a mobile station and a base station, wherein said power control sub-channel originates from said base station (column 17, lines 15-22 and lines 36-45).

Regarding claim 21, Blaker teaches all the claimed limitations as recited in claim 16.

Blaker does not specifically teach of wherein said communication channel is between a mobile station and a base station, wherein said controller is configured for said controlling by adjusting a parameter of a power control outer loop at said base station, wherein said power control outer loop is operating to control power level of a signal transmitted from said mobile station.

In a related art dealing with power control, Ziv teaches of wherein said communication channel is between a mobile station and a base station (Figure 5), wherein said controller is configured for said controlling by adjusting a parameter of a power control outer loop at said base station, wherein said power control outer loop is operating to control power level of a signal transmitted from said mobile station (starting column 14, line 42 and ending column 15, line 20).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Ziv's control mechanism, for the purposes of centralizing power control and thus simplify the traditional power control mechanism, as taught by Ziv.

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Regarding claim 22, Blaker teaches all the claimed limitations as recited in claim 16. Blaker does not specifically teach of wherein said communication channel is between a mobile station and a base station, wherein said controller is configured for said controlling by adjusting a frame error rate set point, at said mobile station, of a power control outer loop, wherein said power control outer loop is operating to control power level of a signal transmitted from said mobile station.

In a related art dealing with power control, Ziv teaches of wherein said communication channel is between a mobile station and a base station (Figure 5), wherein said controller is configured for said controlling by adjusting a frame error rate set point, at said mobile station, of a power control outer loop, wherein said power control outer loop is operating to control power level of a signal transmitted from said mobile station (starting column 14, line 42 and ending column 15, line 20).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Ziv's control mechanism, for the purposes of centralizing power control and thus simplify the traditional power control mechanism, as taught by Ziv.

Regarding claim 26, Blaker teaches all the claimed limitations as recited in claim 16. Blaker further teaches of wherein said controller is configured for said controlling by adjusting a target power level for controlling power level of said communication channel. (page 2, lines 12 - 17; page 9, lines 5 - 17).

Blaker does not specifically teach of [wherein said controller is configured for said controlling by adjusting a target power level of a pilot channel [for controlling power level of said communication channel].

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In a related art dealing with power control, Ziv teaches of [wherein said controller is configured for said controlling by adjusting a target power level of] a pilot channel [for controlling power level of said communication channel] (starting column 12, line 65 and ending column 13, line 20).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Ziv's control mechanism, for the purposes of centralizing power control and thus simplify the traditional power control mechanism, as taught by Ziv.

Regarding claim 27, Blaker in view of Ziv, teach all the claimed limitations as recited in claim 26. Ziv further teaches of wherein said communication channel is between a mobile station and a base station, further comprising: a transmitter in said base station configured for communicating said adjusted target power level of said pilot channel to a receiver in said mobile station. (column 17, lines 35 –45).

Regarding claim 28, Blaker in view of Ziv, teach all the claimed limitations as recited in claim 26. Ziv further teaches of wherein said communication channel is between a mobile station and a base station, wherein said pilot channel originates from the base station (column 17, lines 15 – 22).

Regarding claim 29, Blaker teaches all the claimed limitations as recited in claim 16.

Blaker does not specifically teach of wherein said controller is configured for said controlling by adjusting a power level of a power control subchannel.

In a related art dealing with power control, Ziv teaches of wherein said controller is configured for said controlling by adjusting a power level of a power control subchannel

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(column 17, lines 15-22 and lines 36-45; note that the base stations sends a variety of channels, the pilot being one of the subset).

It would have been obvious to one skilled in the art at the time of invention to have included into Blaker's transceiver, Ziv's control mechanism, for the purposes of centralizing power control and thus simplify the traditional power control mechanism, as taught by Ziv.

Regarding claim 30, Blaker in view of Ziv teach all the claimed limitations as recited in claim 29. Ziv further teaches of wherein said communication channel is between a mobile station and a base station, wherein said power control sub-channel originates from said base station (column 17, lines 15-22 and lines 36-45).

Citation of Pertinent Prior Art

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Inventor	Publication	Number	Disclosure
Park et al.	US Patent	6,480,481	Gated Transmission in Control
			Hold State in CDMA
			Communication System
Tiedemann Jr.	US Patent	6,307,849	Method and System for
			Changing Forward Traffic
	one of the second second		Channel Power Allocation
			During Soft Handover
Roddy et al.	US Patent	6,127,740	System For Controlling Signal
			Strength in a Remote
			Transmitter
Ziv et al.	US Patent	5,884,187	Method and Apparatus for
			Providing Centralized Power
re division de division			Control Administration for a Set
			of Base Stations
Soleimani et al.	US Patent	5,659,892	Operation of Low Cost Fixed
			Output Power Radio in Fixed
			Gain Mode
Gilhousen et al.	US Patent	5,603,096	Reverse Link, Closed Loop
			Power Control in aCDMA

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		100	System
Blaker et al.	World IP Organization	WO 00/075905	Transceiver with Closed Loop Control of Antenna Tuning and Power Level
Jacobsen.	World IP Organization	WO 02/19562	Wireless Communication System Determines Antenna Gain Parameter Associated with Generated Transmission Beam to Adjust Transmission Power Level

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tanmay S Lele whose telephone number is (703) 305-3462. The examiner can normally be reached on 9 - 6:30 PM Monday – Thursdays and on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on (703) 305-4778. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Tanmay S Lele Examiner

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tsl February 6, 2003 SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600